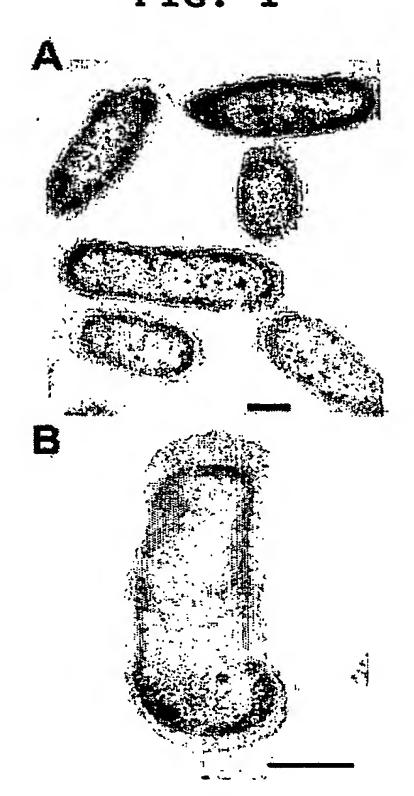
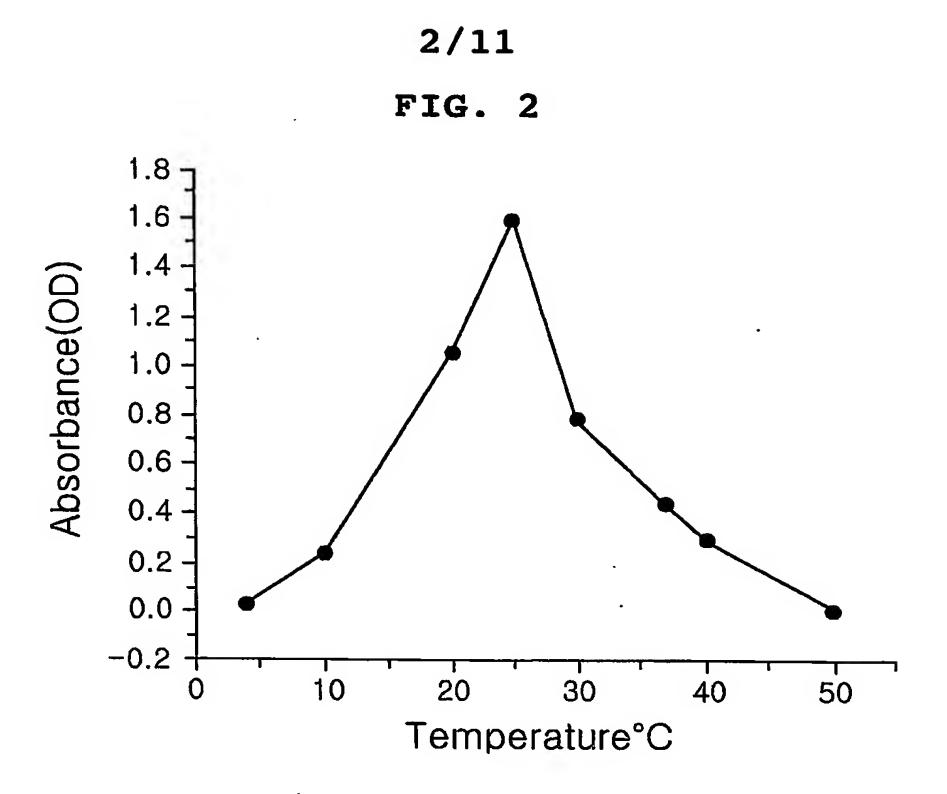
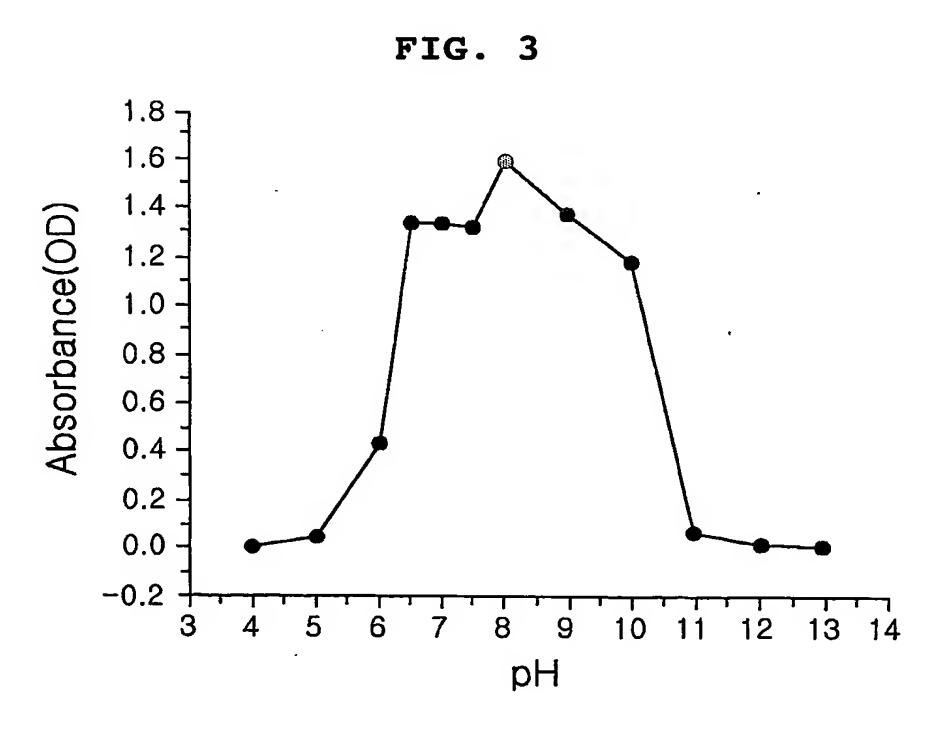
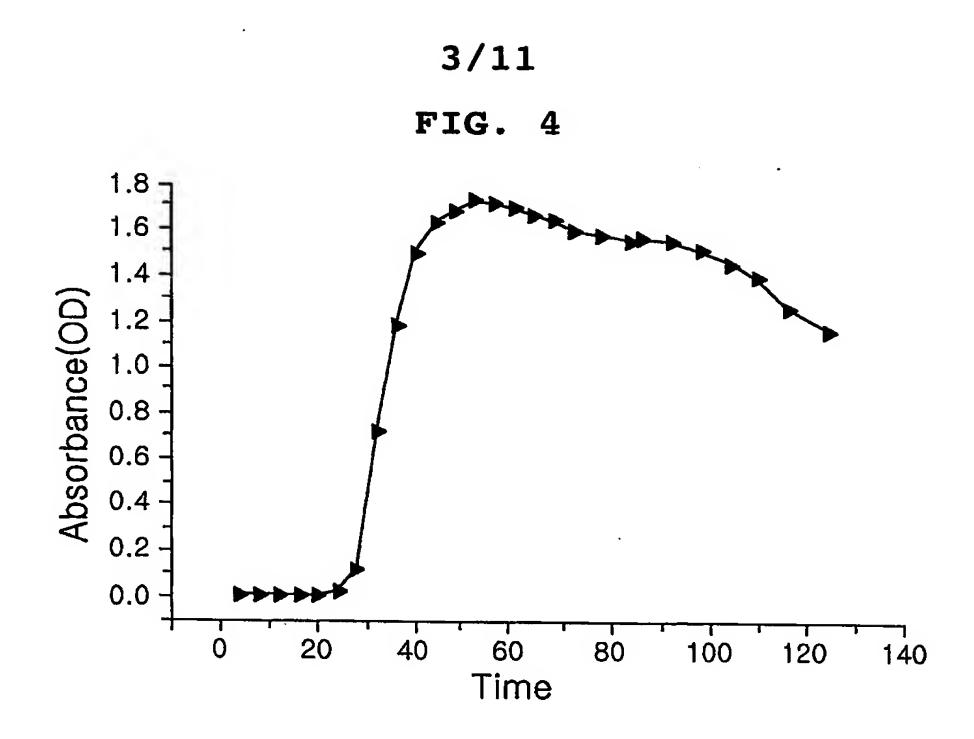
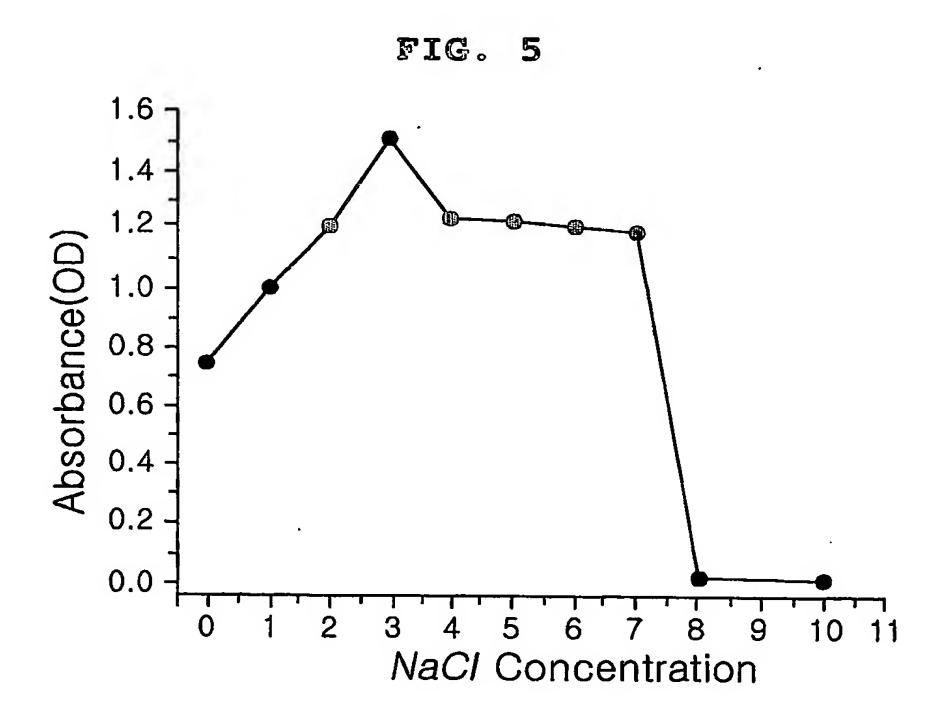
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FIGURES
FIG. 1





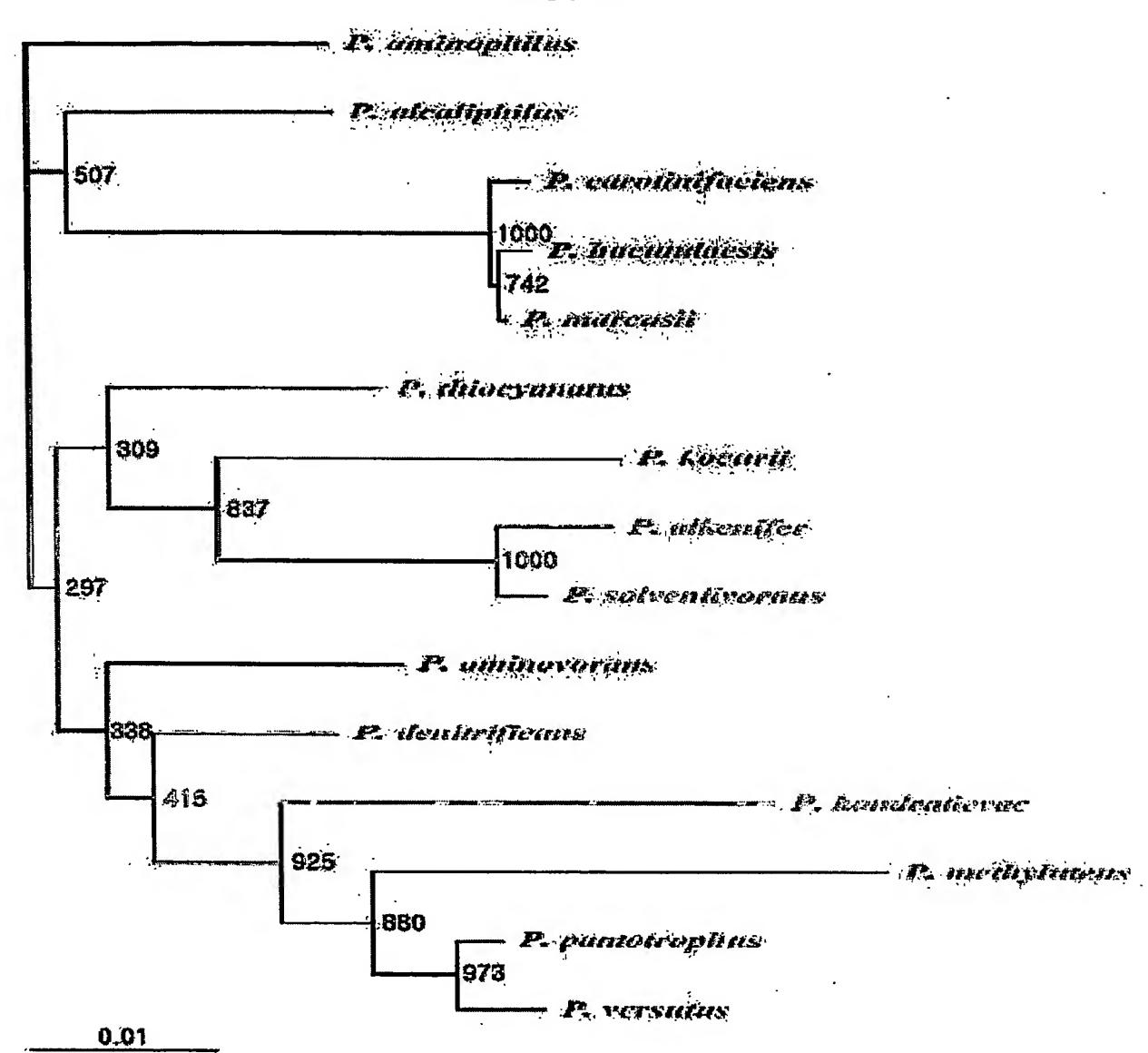




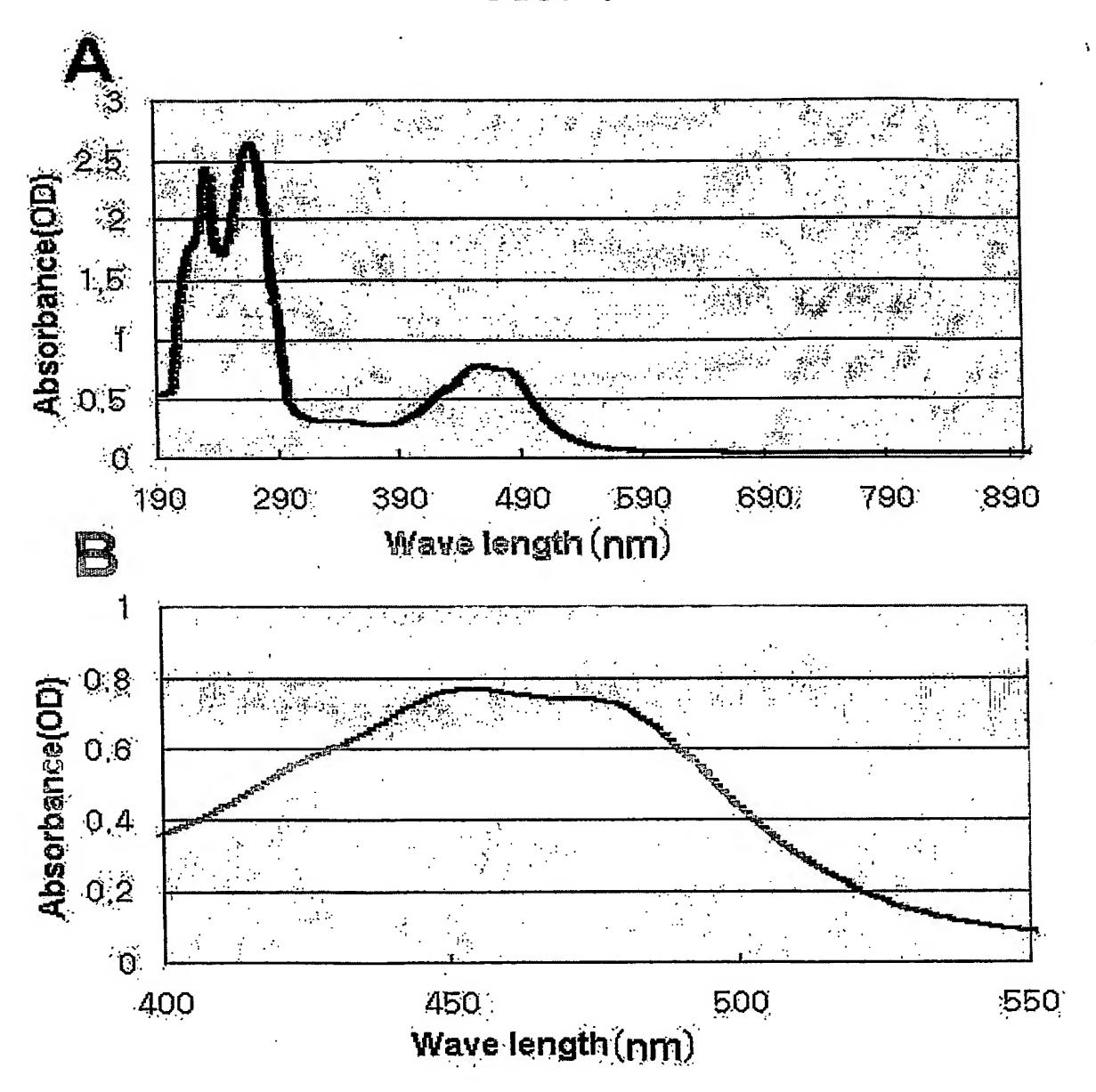


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FIG. 6



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FIG. 8

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FIG. 9

		1 100								
P. haeundaesis	(1)									
Alcaligenes_sp	(1)									
Bradyrhizobiym_sp	(1)	MHAATAKATEFGAS BRDD ARORROGLTLAAVITAAWLVLHVGLHFEWPLTLHSLLPALPLVVLQTVLYVCLFILAHDCHEGSLVPFKPQVHBRIGQLCLF								
Consensus	(1)	MSAK ATVELSAAIIAAWLYLHV. LWFLDAAAHPLLAIL ELGLT WESVGLFIIAHDAMHOSVVPGRPRANAAIGQL LW								
		101								
P. haeundaesis	(90)	LYAGES VEKNIVKUNAHBEHIGIDDDEDEDEDGPVRDYARFIGIYEGFREGLLLP VI VY ALILED-BVHYVVFVPLESILASIQLFVFGIDLDER								
Alcaligenes_sp	(90)	LYAGPS WEKLI AKHUT HIBBAGTONDPDEGEGGPYRWYGSEYSTYEGEREGLLLENINTTYALILED-RWHYVIFEPYBAYLASIOI EYEGTULPHR								
Bradyrhizobium_sp.	(101)	Lyages foal nyehekehehepgtael ededevpp hof dhupas felhyfg ekoval laavslyyol yp avploniolf galpolls algúst foi y lebk								
Consensus	(101)	LYAGES W KLIVKHU HHRH GIDDDPDFDEG GPVBWYASFI TYFGWREGLLLPVIVIVYALILGD RWHYVIFWPLPAILASIQLFVFGTWLPHR								
		201-								
P. baeundaesis	(186)	PGHDAPPDRHNARSSRISDPVSLLTCFHEGGYEHEHHLHPIVPUVRLPSTRTKGDTA								
Alcaligenes_sp	(186)	GHDDFPDRHNAISTGIGDPLSLCTCFHFGGYBHEHHLHPHYL-FVBLPBTRKTGGRA								
Bradyrhizobium_sp	(201)	atoppadehnaetseppavlslitcpefg-pehenhlepdapvyrlpki krralerrd								
Consensus	(201)	EGHD FPDRHNARSS I DPLSLLTCFHFGGYHHEHELHP YPWYRLP TRKKG A								

FIG. 10

	1	100	
P. baeundaesis (1	1) 部)	npli angl alang abartagas abedi i babreg garsherendharekadracae aai alarl lagai abar alari alari abarheg paroka	
Alcaligenes_sp (1) in	obtiany ar abet 14 as abugia barahae ehphyrexeptioa ab vartite. Acy and arthy sagriblistiched abour	
Consensus ()	1) HT	netiaasiatanetyaasahbaihhebeterebherhphatekndtaetabaaltitetae o batobiytehtatithoenab	;
		101	
P. haeundaesis	(101)	PFRYITRÉGYARBLYQABELHHA VEGROHCVSFGFI YAPPYDRLÄQDÍKTSGVLRAB AQERT	
Alcaligenes_sp	(101)	PFRYI PERGYPERLYQAHRLHHAVEGEDHCVEFGII YAPPYDRLXQDILRIGYLEPQDERPS	
Consensus	(101)	PFRYIPBEGY BRLYQAHRLHHAVEGRDHCYSFGFIYAPPYDKLKQDLK SGYLB S	

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FIG. 11

À

100 1 (1) YTHDYLLAGAGLANGLTALALBAARPDLRYLLLDHAAGPSOGHT WSCHDPDLSPHVLAELKPLRRANWPDGEVRFPRHABRLATGYGSLDGAALADAVAR P. haeundaesis (1) ES EDILIAGAGI SGÀLIA LA VEDERI DA EL VELDAR SO ES LOHT EL CHUT DI CE EVIADI SE EL TOTO SE EL TOTOS LE AGALIGILO. Flavobacterium_sp (1) HEHDLLIAGAGLA ALIALALE RPD RILLLD AGESD HIWSCHD DLSP WLARL PIRRA W DOEV-FP HARRL TGYGSIDAAAL Consensus ~200 101 (101) SGABIE WASDIALLÜBEĞAYLS CGTRIBAGAYLDGRGAQPSRHLTVEHOKPYGVKI EYDCPHĞVPRPHHUDATVIQQDEYRPIYLLPPSPİRILLEDI EY P. haeundaesis (100) -GYDLBUNTHVATEODTGATEIDGSBIBAACVIDALGAVETPALTVIPQKFYGVELEDAPBGVERPNTHUATVPQHDIVRFIVELPEZETBILIEDFEV Flavobacteriumsn (101) G DIRWAS IA LDD GATLS GSRIBAA VIDARGA S. HLTVGFQKFVGVEIETD PHGV RPMINDATV Q DGYRFIYLLPFSPTRILIEDTRY 200. 201 (201) SDGINLDDDALAAASHDYARQQGWTGAEYBRERGILPIALAHDAAGFWADEAEGPYPYGLBAGFÉHPYTGYGLYAAQYADYVAGLSGPPGTDALRGAIB P. haeundaesis (199)' STIG-IDLDIGALAGESLDYKARROUTGORNESERGIT, PI ALEHDATGFURDHEÓGAYPYGLGAULFHT-UTGYSEPYAAGYADALEAR--DLTTAS ABRAYK Flavobacterium_sp T A R AIR. (201) SDGG LDD ALA AS DYA GUTG EMRRERGILPIALABDA GFW DHA G VPVGL AG FHPVTGYSLPYAAQVAD IAA Consensus 387 301 (301) DYALDKAREDEFLELLNEILPEGCAPDREYTLLQEFYRHPEGLIESEYAGELSVADQLEIVIGKPPIPLGTAIECLPEEPLLKENA P. haeundaesis Guaticade de le l'histre copposite de la composite de la compo Flavobacterium_sp (297)WAIDRA RORFLELLNENLFEGG PORRY LLORFYELD LIERFYAGELSLAD LEIVIGKPPIPL AIECLPERPLL E A (301)Consensus FIG. 12 100 1 (1) INAHSPAAKT XI, FI GRGF GOLALNIBLG SAGI AT FLYEADDEFG GOLAF POHDGOUVED AGET, FI FOPDALKELD ALICIO DHARD VT LUCYCL FYELHUPG P. baeundaesis: ---nssatyteachgolalatheosachattivbardkeuchayyandochvedachtvatdedslbelgalsochberdatllevsdeycltvad .Plavobacteriun_sp S-IVIGAGEGGLALAIRLQSAGIATTIVEARDKPGGRAYVW DQGEVFDAGPIVITDPDALKELWALSGQ H RDVTLLPVSPFYRL W (1)Consensus 200 101 P. baeumdaesis- (101) GRYFD?THEALQLELGIAQFA-DDLEGYABFRDYAUETTQEGETAKGT VETLULGGYLKAAPALHKLBAYKE THAKVATEIKDPYLGEAFFYE-LLVSGH (94) GRSFBYPHDDDELI EQVESTIPADVDGYERFHDY ELEVYREGYLEI GYTPFLKLEGELNAAPALEBLGAYBG VHSBYRBY LQDFHLEGAFTFH LL VOUN Plavobacterium_sp Consensus. (101) GK FDYYND D'E BQIA FNP DEDGYRRF DYABEVY EGYLKEGI PFEKEGUNE AAPALHKE AYKSYHA VA FI DPHERQAFSFHILEVGGN 201 300 (201) PESTSSIVALIBALEBBGGVUPAKGGTKQLVAGHVALPERLGGQHNLHAKVARTET EGABTT GVYLADGESLKADHVÄSHGDVHHNYGDLLGET ALGQSB P. hæundæsis (194) PFSFSSTYALTBALEREGGVUEAKGGTEQLVAGHVALFEBLGGT LLIHARVTRIDT EJDEATGVTLLDGRQLRADAVASHGDVBFS YEDLLGHTREGRTK Flavobacterium_sp (201) PESISSIVALIHALERBOGVUFAKGOTNOLVAGNVALFERLOG LLLNAKV RIDTEG R TOVIL DOR-LRAD VASNODVHH YRDLIGHT RG SK Consensus 400 301 P. baeundaesis (301) AKSLDEKRUSUS LYCEREAPKDIAHHTI LEGPEYBRI VEETERGPELAEDES LYCESPCT TOPDUAPPGEST SYVEAP VEHICE ABIDGA VEGPRY (294) AAILNEQUEE HELFT. HEGI.SKRI-ENLABHSVIEGERYKGLYKEIENGEBILDDESHYLHSPOVIDESLALEGHST HYVLAP. YPBLGG AD YD UE AE AP GY Flavobacteriun_sp P. IAHESIIFGPRYK LYNEIF GPKL DDFSLYLESPC TDP LAP GHSTHYYLAPYPHLGRADIDU EAP Y (301) A L' B RUSHSLFYLHFGL Consensus **B00** 401 (401) adri laslebbli pulranliti bi pi pad rasilin anbocaps vepi Li ocavert hipoki i rn pislogagi ipisagi pavags akat aqvalis de ka P, haeundaesis (394) ABRI FEBL'EBRALVDLRKHLIVSELFSTADFSIELS AHEGSAFL VEPILIOS AVFRPHHEDRAL PHFYLVGAGI HPGAGL PGVVGLABAT AQVHLSDLAV Flavobacterium_sp LE B IP LE LT SRIFSPADFASEL AHEGSAFSVEPILTOS AUFRPHNEDK I NEYLVGAGTHPGAGIPGVVGS AKATAQVHISDLA (401) ADBI Consensus 501 P. haeúmdaésis (501) A

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FIG. 13

	1
P. haeundaesis	(1) HSDLVLTSTELITOGSOSFAFAAKLHPYGIRDDTVHLYAKCEHADDVIDGJALGSBPEAVNDPQARLDGLBVDTLAALQGDGPVTFYFAALBAYAERHDF.
Plavobacterium_su	(1) ht dlitatsbahlaggscspaciarlypygibbotyhlyanchaddyldgoyhesapeaggppcablgahlaalhandthaalheppsppfaalboyabbrup
Consensus	(I) HEDL IS AL QUEORFA ARKIMPPETENDI VILVANCEHADDVIDGO LUS PER DPQARL ALE DILAAL PUPPEPPAALE VABREDF
	101.
P. baeindaesis	(101) PQAWENDLIEGEANDVEARDYRILDDVLEYSYBYAGIYGVENAKYEGYRDDPYLDRAGDLGLAFGLTRLARDVIDDARIGECYLPGDULDQAGARIDGPY
Flavobacterium sp	(101) FDLWFHDLTEGEAMDVADEEYRSLDDVLKYSTHVAGVYGVENARVEGCODAVLUBAGDLGLAFOLTHLARDVIDDAATGECYLPADWLABAGATVEGEV
Consensus	(101) P WPNDLIEGFANDY RDYRSLDDVLEYSYHVAGIVGVHHARVUGY DD VLDRACDLGLAFQLTNIARDVIDDA IGRCYLPADWL AGA IDGPV
	201 · · · · · · · · · · · · · · · · · · ·
P. baeundaesis	(201) PSPELYTYILELLDEAEYYYAS ARYOLADLPPECAESI AAALHI YHAIGLEI EKSOPQAYEGEI SYSKAAKIOLLOYGODDVARSELPGAGVSBOOLDIR
Flavobacterium_sp	(201) PUDALYSVIIRLLD AARPYYAS ARQULPHLPERCAUSI AAALRI YRAIGT NI EQGGPRAYEQRI SI SKAARIULLARGGLDAAASELRGGEI GRDULHIK
Consensus	(201) PS LYSYIIRLLD AEPYYAS AR GL LPPRCAUSIAAALRIYRAIG RIB GP AYBORISTSKAAKIGLLA GG D A SBL GA ISB GLUTR
	301
P. haeundaesis	(301) PHHY-
Flavobacterium_sp	(301) FRA-
Consensus	(301) P

						F	IG.		14											
		1																	1	00
P. haeundaesis Flavobacterium_sp Consensus	• -	h n Na kaolai Na bkaolai	rdt vei	RĻAQIS	GOERA	sapļu	haicp	AALSE	_ •	ALTITA	, Pesso	GYCDA	nvdaac	aveer	Haasli	FDDN	CHON	THE!		H.
		101																	20	30
P. haeumdaesis	(101)	HY AHGEST	AVI.GOI!	LITRĄE	DALLAG	hegh <mark>s</mark> e	PERIVT	LVRII	RESTU	QGLC?(agdinge	HAAKN	GAGVEC	eadly	(Halfa)	[agle	HLAVIK	efdai	BUQ	Ļij
Flavobacterium_sp	(101)	THANGE OR	AVLACE	el¦eai	BILGE	Tabuk	PDQLAR	Lyas)	CEART	WILUM	undeve	R¥BYD	arci ee	eque	eager 1	V ahil H	elstik	aldk	aeti	93
Consensus	(101)	HVAHGE B	AVLAGI?	LITEAL	I ILA	ARGAS	RA	ra i	LSBALGP	GLCA	GODLDL	HA K	aagie	EODLE	TGVLF	IAGLE	BLAIIK	D	E	Q
		201																295		
P. baeúndaésis	(201)	MI DECROT	en ae con i	addirio.	NOIDA	alukui	aadad a	APGPI	ralleas	SDLQN	YSBHYF	Masem	LIVANLI	iskrlq	APRIA	allei	VLPYAA	kA		
Flavo bacterium_sp	(201)	LHAFORQL	or veces	ediadu	ei GDRA	st ekdi	ABDT A	APGPI	reginav	'GQ HGD'	TEHOAS	Pagbaq	FURLE	TRLFR	GGQIA	dllar	arfidi	rbs a		i
Consensus	(201)	LI FGRQL	gryfos'	addrrd,	AI CD A	a gkd	rard a	APGP	k gllav	L	da ha	ASBAC	ID LL	RSK.	A IA	LL B	ALPH	R,		

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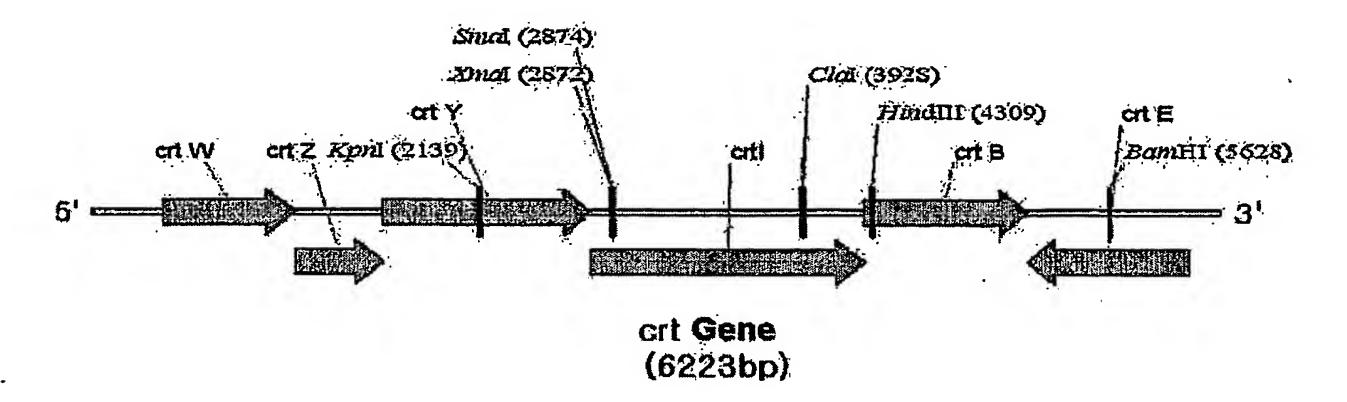
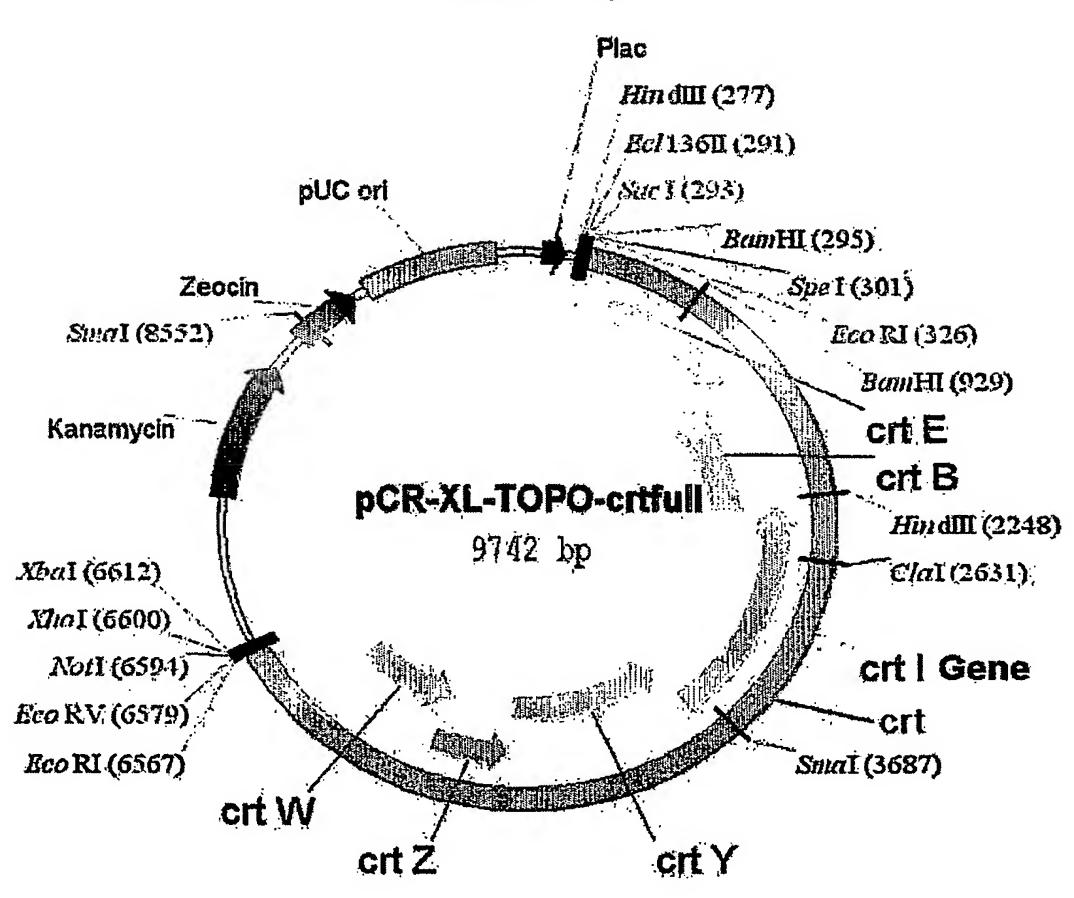


FIG. 16



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